

Receiving Report

Date: 13-12-11

Batch No: 127736

Supplier: ThyssenKrupp materials

Dart P/O: 22228

Packing Slip: Yes ☒ No ☐

Release Note Attached: Yes ☒ No ☐ N/A ☐

Invoice: Yes ☒ No ☐

Waybill Attached: Yes ☐ No ☒

Receipt: Cash ☐ Cr ☒

Shipment Complete: Yes ☒ No ☐ N/A ☐

QC6 Inspection 13/12/18 N/A ☐

Work Order ☐ N/A ☐

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12 SP

Production/Admin: B-12-11

Date 13-12-11

Location

Received/Costing SP

Initial SP

Purchase Order Receipt Listing

Wednesday, December 11, 2013 7:58:56 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO22228 Receipt Dates from 12/1/2013 to 12/1/2013 All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MIRB Qty/ MIRB Reject Qty	Book Amt
Vendor ID \ Vendor Name VC-COP001 ThyssenKrupp Materials CA Ltd											
PO22228	4		M7075T6B3.500X02. f 000		12/1/2013 12/1/2013		24.0000	\$33.43	0.0000	0	\$802.24
CAD	No		7075-T6 BAR 3.500" f X 2.000" M127736		24.0000 DES:02			\$802.24	0.0000	0	
	5		M7075T6B4.000X03. f 000		12/1/2013 12/1/2013		12.0000	\$58.51	0.0000	0	\$702.07
	No		7075-T6 BAR 4.000" f X 3.000" M127736		12.0000 DES:02			\$702.07	0.0000	0	
	6		M7075T6B2.000X00. f 750		12/1/2013 12/1/2013		12.0000	\$13.56	0.0000	0	\$162.71
	No		7075-T6 BAR 2.000" f X 0.750" M127736		12.0000 DES:02			\$162.71	0.0000	0	
	7		M7075T6B1.750X02. f 250		12/1/2013 12/1/2013		12.0000	\$24.40	0.0000	0	\$292.84
	No		7075-T6 BAR 1.750" f X 2.250" M127736		12.0000 DES:02			\$292.84	0.0000	0	
	8		M7075T6B6.000X02.4 50		12/1/2013 12/1/2013		12.0000	\$14.08	0.0000	0	\$169.02
	No		7075-T6 BAR 6.000" f X 0.250" M127736		12.0000 DES:02			\$169.02	0.0000	0	

Total Received Quantity: 72.0000
Total Qty to Inspect (PO U/M): 0.0000
Total Reject Quantity: 0.0000
Total Receipt Value: \$2,128.87
Total Balance Due Quantity: 0.0000

B I L L O F L A D I N G

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

11 dec
No: PEC 854405
Ship Date 09Dec13 at 15:20 From PFW
Probill
Via VIM TRANSFER
FOB HAWKESBURY
Frnt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7
Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

1) Our Order PEC-630610- 1 Your PO # PO22228

Part # QQ-A-250/12 PLATE

Rel # /CHANTAL

ALUMINUM PLATE 7075-T651

2.00" THICK X 3.5000" X 144.0000"

Heat Number
461731

Tag No
243898

Quantity
7.00 SFT

PCS
2

Wt LBS
219

2) Our Order PEC-630610- 2 Your PO # PO22228

Part # QQ-A-250/12 PLATE

Rel # /CHANTAL

ALUMINUM PLATE 7075-T651

3.00" THICK X 4.0000" X 72.0000"

Heat Number
400911

Tag No
243900

Quantity
4.00 SFT

PCS
2

Wt LBS
179

3) Our Order PEC-630610- 3 Your PO # PO22228

Part # QQ-A-250/12 PLATE

Rel # /CHANTAL

ALUMINUM PLATE 7075-T651

.750" THICK X 2.0000" X 144.0000"

Heat Number
717875

Tag No
243901

Quantity
2.00 SFT

PCS
1

Wt LBS
23

4) Our Order PEC-630610- 4 Your PO # PO22228

Part # QQ-A-250/12 PLATE

Rel # /CHANTAL

ALUMINUM PLATE 7075-T651

1.750" THICK X 2.2500" X 144.0000"

Heat Number
625671

Tag No
243902

Quantity
2.25 SFT

PCS
1

Wt LBS
61

Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

B I L L O F L A D I N G
Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

No: PEC 854405
Ship Date 09Dec13 at 15:20 From PFW
Probill
Via VIM TRANSFER
FOB HAWKESBURY
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

5) Our Order PEC-630610- 5 Your PO # PO22228
Part # QQ-A-250/12 PLATE Rel # /CHANTAL
ALUMINUM PLATE 7075-T651
.250" THICK X 6.0000" X 144.0000"
Heat Number Tag No
R13495 243932

Quantity
6.00 SFT

PCS
1

Wt LBS
22

Tags
5

PCS
7

LBS
504

TOTAL:

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

TOTAL 4 BDLs GW. 587 LBS

ITEM (1,3) BDL, (2) BDL, (4) BDL, (5) BDL.

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***

*** TEL. 800-926-2600 ***

* WE STOCK STAINLESS STEEL *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
ADDED TO EVERY ORDER.***

Page: 2 Last

ALUMINUM - LAITON - CUIVRE - PLASTIQUE - ACIER INOX
ALUMINUM - BRASS - COPPER - PLASTICS - STAINLESS

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE



CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES
1015 SAINT JEROME STREET
MISHAWAKA IN

46544

COPPER & BRASS SALES
P.O. BOX 5116
SOUTHFIELD MI

48086

COPPER&BR X12606 4075 INCLUSION SERIAL#: 20131014X12606 PAGE 1 OF 3

CUSTOMER PURCHASE ORDER NO. & ITEM 5400196101		Constellium ORDER NO. 110-513381		CERTIFICATION	
ALLOY 7075	CLAD. 00	TEMPER T651	GAUGE 2.03000	WIDTH 48.500	LENGTH 144.500
ITEM ORDERED MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL					
CUSTOMER SPECIFICATION AMS-QQ-A-250/12					
PART NUMBER ALFLR00999		B/L NUMBER X12600		DATE SHIPPED 10/14/13	
WEIGHT SHIPPED 12,126		NO. OF PIECES 8		GOVT. CONTRACT NO.	
<p>"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."</p> <p>Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA</p> <p><i>Rodney J. Felty</i> Rodney J. Felty - Laboratory Manager</p>					

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS										
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN	MAX									
461721	LT	2	***** T651 80.3	81.0	71.0	71.0	***** 11.0	11.5											
All material contained in lot 461721 was cast and manufactured in the USA.																			
461731	LT	2	80.6	81.0	70.6	72.0	11.0	11.0											
All material contained in lot 461731 was cast and manufactured in the USA.																			
ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS																			
ASTM B209-10, AMS 4045K																			
CHEM COMP	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTAL MAX.
	SEE ACTUAL																		
	ALUMINUM REMAINDER																		

P-860-155D (06/11)

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402843098

CstAr

CstOr 254172

Wgt.: 219 LB

Date 12/05/2013

John L. Zambetti



CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES
1015 SAINT JEROME STREET
MISHAWAKA IN

COPPER & BRASS SALES
P.O. BOX 5116
SOUTHFIELD MI

46544

48086

COPPER&BR X12606 4075 INCLUSION SERIAL#: 20131014X12606 PAGE 2 OF 3

CUSTOMER PURCHASE ORDER NO. & ITEM 5400196101		Constellium ORDER NO. 110-513381			
ALLOY 7075	CLAD. 00	TEMPER T651	GAUGE 2.03000	WIDTH 48.500	LENGTH 144.500
ITEM ORDERED MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL					
CUSTOMER SPECIFICATION AMS-QQ-A-250/12					
PART NUMBER ALFLR00999		B/L NUMBER X12600		DATE SHIPPED 10/14/13	
WEIGHT SHIPPED 12,126		NO. OF PIECES 8		GOVT. CONTRACT NO.	

CERTIFICATION
"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

Constellium Rolled Products Ravenswood, LLC
Rt 2 South, Century Road
P.O. BOX 68
RAVENSWOOD, WV 26164 USA

Rodney J. Felty
Rodney J. Felty - Laboratory Manager

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS										
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN	MAX									
ACTUAL CHEMICAL COMPOSITION																			
461721	C		SI= 0.10	FE= 0.15	CU= 1.45	MN= 0.05	MG= 2.58												
			CR= 0.19	ZN= 5.55	TI= 0.03	ZR= 0.01													
			OTHERS-EACH: .05 MAX.		OTHERS TOTAL: .15 MAX.		AL REMAINDER												
461731	C		SI= 0.10	FE= 0.15	CU= 1.45	MN= 0.05	MG= 2.58												
			CR= 0.19	ZN= 5.55	TI= 0.03	ZR= 0.01													
			OTHERS-EACH: .05 MAX.		OTHERS TOTAL: .15 MAX.		AL REMAINDER												
<i>and</i> <i>13/12/18</i>																			
CHEM COMP	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTAL MAX.
		SEE ACTUAL CHEMICAL COMPOSITION																	
ALUMINUM REMAINDER																			

P-860-155D (06/11)

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402843098

CstAr

CstOr 254172

Wgt.: 219 LB

Date 12/05/2013

John L. Zambetti



CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES
1015 SAINT JEROME STREET
MISHAWAKA IN

46544

COPPER & BRASS SALES
P.O. BOX 5116
SOUTHFIELD MI

48086

COPPER&BR X12606 4075 INCLUSION SERIAL#: 20131014X12606 PAGE 3 OF 3

CUSTOMER PURCHASE ORDER NO. & ITEM 5400196101				Constellium ORDER NO. 110-513381	
ALLOY 7075	CLAD. 00	TEMPER T651	GAUGE 2.03000	WIDTH 48.500	LENGTH 144.500
REM ORDERED MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL					
CUSTOMER SPECIFICATION AMS-QQ-A-250/12					
PART NUMBER ALFLR00999			B/L NUMBER X12600		DATE SHIPPED 10/14/13
WEIGHT SHIPPED 12,126		NO. OF PIECES 8		GOVT. CONTRACT NO.	

CERTIFICATION

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

Constellium Rolled Products Ravenswood, LLC
Rt 2 South, Century Road
P.O. BOX 68
RAVENSWOOD, WV 26164 USA

Rodney J. Felty
Rodney J. Felty - Laboratory Manager

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS												
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.											
THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.																					
CHEMISTRY BY OES: ARKSPARK																					
CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT.																					
WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399.																					
WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8; B557.																					
Mark Paperwork: ALFLR00999																					
DUNS Number: 090570149; CAGE Code: 1YWL9																					
Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product.																					
"END OF CERTIFICATION"																					
CHEM COMP	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS			
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTAL MAX.		
	SEE ACTUAL CHEMICAL COMPOSITION																				
	ALUMINUM REMAINDER																				

P-860-155D (06/11)

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402843098

CstAr

CstOr 254172

Wgt.: 219 LB

Date 12/05/2013

John L. Zambetti



INSPECTION CERTIFICATE № 13.12328

EN 10204 - 3.1



Certified by Russian Register

3

Consigner: KAMENSK URALSKY METALLURGICAL WORKS 5, Zavodskaya Str., Kamensk Uralsky, Sverdlovsk Region, 623405, Russia Tel: (3439) 39 52 22 Fax: (3439) 39 50 68				JOINT STOCK COMPANY							
Consignee: Thyssen Krupp Materials NA				Quantity: 6							
Contract number: N14326-S 5400177513-R01 Article number: ALFLR003206				Specification №: N14326 Lot №: 1 Package №: 619824							
Description of Goods: Plates				Requirements on the Products:							
Grade of Product		Dimensions, inch/mm		Material conforms to quality of alloy: 7075 T651							
		0.75"X60.5"X144.5" 19.050X1536.7X3670.3		Product conforms to all requirements of: ASTM-B209-10, AMS-QQ-A250/12AMS4045K, This product conforms to European Union RoHS Directive 2002/95/EC							
Mechanical Properties											
The Condition of Tested Standards	Lot Number	Cast Number	Number of Tests	Tensile Strength		Yield Strength (0.2% offset)		Elongation, %		Hardness, HB	
				ksi		ksi					
				min	max	min	max	min	max		
Required				78.0	-	68.0	-	7.0	-	-	
	717875	12-1962	2	85.8	85.8	75.2	75.8	14.0	14.0	-	
Chemical Composition, %											
Element	Silicon Si	Iron Fe	Copper Cu	Manganese Mn	Magnesium Mg	Chromium Cr	Nickel Ni	Zinc Zn	Titanium Ti	Zirconium Zr	
Required	0.4	0.5	1.2-2.0	0.3	2.1-2.9	0.18-0.28	-	5.1-6.1	0.2	-	
Contents	0.04	0.16	1.4	0.02	2.5	0.19	-	5.9	0.08	-	
Element	Ti+Zr	Na	Tin Sn	Bismuth Bi	Plumbum Pb	Mn+Cr	Ca	Other Elements		Al	
								Each	Total		
Required	-	-	-	-	-	-	-	0.05	0.15	remainder	
Contents	-	-	-	-	-	-	-	0.05	0.15	remainder	
Other Tests											
Method	Macro-structure	Micro-structure	UT	Electro-conductivity	SCF	Contents H2 of metals cm3/100gr	Mercury - Free "Russia is country of melt and manufacture"				
Result	-	-	-	-	-	0.07					

On behalf:

OAO KUMZ

Date:

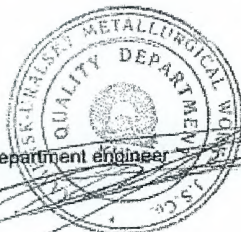
25.04.13

Inspector:

G.A.Ostanina

Inspection Department engineer

N.V. Alekhina



Form № OADR/3.001 Revision 00

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402843100

CstAr

CstOr 254172

Wgt.: 23 LB

Date 12/05/2013

CERTIFIED INSPECTION REPORT

Alcoa Inc.

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

Ship From: RIVERDALE, IA.

We hereby certify that the material covered by this certificate has been inspected with and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

This test report shall not be reproduced except in full, without the written approval of the Quality Department. No alteration, addition or other change is authorized to be made to this certificate. The recording of false, fictitious, or otherwise fraudulent statements or entries on this certificate by any recipient may be punished as a felony under applicable law.

Per:

Rob Woodall
Director of Manufacturing Davenport Works

Terrence Thom
Quality Assurance Manager

1659898 0 B.L. No. Invoice No. Alcoa No. Item
Ship Date 2013-11-20 8912617 00000 1000536622-6 DP-36622-6
P.O. No./Govt Contract No. Customer Alcoa Item
5400199535 Inv# 0060 C&B G041090316R07

Page 1 of 2

Ship To: COPPER & BRASS SALES INC
1015 SAINT JEROME ST.
MISHAWAKA 46544 IN

Item Description
1.78 IN TK (+.120 -0.000) X 60.5 IN W (+.375 -
0.000) X 144.5 IN LN (+.5 -0.0) CAT X 090910-1 (N) A/T 7075-
T651 RECTANGULAR MILL FINISH, SAWED
ALFIR00996, EXC TK TL AMS-QQ-A-250/12 IS 2097 EXC_MRK,
TK TL AMS4045 REV K EXC_MRK, TK TL ASTM209
REV 10 ((MARKED)) KRAFT PAPER
INTERLEAVED MAX GROSS SKID WGT: 5000 LB QUAN TOL +/-
40 % CQR 0206868 REV 07 CUST REQ 13-11-
20 *** W/E 13-11-23 ***

Num	Package Ticket	Lot	Weight	Quantity	UOM	Inspector	Clock Numbers
1	577457	625671	3275	2	PC	47414	
2	577458	625671	3287	2	PC	47414	
3	577460	625671	3275	2	PC	47414	
			9837	6			

13/12/18

Notes for CQR: 0206868.7
PRODUCT PRODUCED AND MARKED TO THE REQUIREMENTS OF AMS-QQ-A-250/12 ALSO MEETS THE REQUIREMENTS OF QQ-A-250/12F. PROD UCT
PRODUCED AND MARKED TO THE REQUIREMENTS OF QQ-A-250/12 F ALSO MEETS THE REQUIREMENTS OF AMS-QQ-A-250/12.

CQR: 0206868.7 -Specification Limits

Temp Dir UTS TYS EL4D
T651 Long Transv. KSI KSI PCT
Max 67.0 6
Min 77.0

Chemical Composition SI FE CU MN MG CR ZN TI Each Total Aluminum
Max 0.40 0.50 2.0 0.30 2.9 0.28 6.1 0.20 0.05 0.15
Min 1.2 2.1 0.18 5.1
Alloy 7075 REMAIN

From: ThyssenKrupp Materials NA
Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402843090
CstAr CstOr 254172
Wgt.: 61 LB Date 12/04/2013

John R. Smith

CERTIFIED INSPECTION REPORT

Alcoa Inc.

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

Ship From: RIVERDALE, IA.

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

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Per:

Rob Woodall
Rob Woodall
Director of Manufacturing Davenport Works

Terrence Thom
Terrence Thom
Quality Assurance Manager

Page 2 of 2

1659898
Ship Date 2013-11-20 B.L. No. 8912617 Invoice No. 00000 Alcoa No. Item 1000536622-6 DE-36622-6

P.O. No./Govt Contract No. 5400199535 In#: 0060 C&B G041090316R07 Customer Alcoa Item

COR: 0206868.7 -Specification Limits (cont.) -----
Lot: 625671 - Mechanical, Physical, Metallurgy, Quantometer Results -----

Temp
T651 Dir Long Transv. 3 Test UTS KSI PCT EL4D
82.8 81.8 82.6 73.9 73 10.7 10.7 10.8

Cast Number H9835024 Chemical - OES SI FE CU MN MG CR ZN TI
Actuals 0.05 0.32 1.7 0.01 2.6 0.19 5.6 0.02

This material was melted in the United States or a Qualifying Country [REF DFARS 225.872.1(a)]; it was manufactured in the United States

13/12/18

From: ThyssenKrupp Materials NA
Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402843090
CstAr CstOr 254172
Wgt.: 61 LB Date 12/04/2013

John R. Jacobson

Constellium Valais SA

CH-3960 Sierre
Suisse

Aerospace and Transportation
Europe - AT Valais, Usines de Sierre et Steg

Tel : +41(0) 27 457 51 11
<http://www.constellium.com>



CONSTELLIUM ROLLED PRODUCTS
RAVENSWOOD, LLC

US -26164 RAVENSWOOD

INSPECTION CERTIFICATE

According To EN 10204-3.1
Disp. Advice / Cert 0080237066
Date 10/07/2013 Page 1

Your Order 5400179908
Copper
Project
Dated 01/05/2013
Our Confirmation No. 143280-60
Customer No. 606281
Sales Contact Fabienne Salamin
++41 (27) 457 6432
Certificate Dpt : 41 27 457 66 92

Aluminium plates in AA7075-T651, mill finish,
To AMS 4045K, AMS QQ-A-250/12 August 1997, ASTM B209 and SIE0002
Alumitex paper interleaved

Your article : 012-000503

Lot	Production No.	Weight	Quantity	Dimensions
R13495	6241629	8434.74 Lbs	38	0.250" x 60.50" x 144.50"

Mechanical and technological properties

Sample	Temper	Ksi-UTS	Ksi-YS	A%2Inch	HB								
min-max	T651	>=78	>=67	>=9									
min-max													

Measured values

R13495-1	T651	82.2	73.1	12	176								
R13495-2	T651	81.9	73.1	13	177								

Chemical composition

Required composition (% by weight)

Casting No	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti		
Min			1.2		2.1	.18		5.1			
Max	.40	.50	2.0	.30	2.9	.28	.05	6.1	.20		

Analysis results (% by weight)

Other elements: Each <= 0.05% Total <= 0.15%

31476332	0.06	0.17	1.52	.049	2.46	0.19	.0045	5.64	.021		
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Remark

This certificate of conformance verifies that the organization took effective control of quality to meet the specified requirements on both the sales order(s) and the customer purchase order(s)

*** COUNTRY OF ORIGIN AND MANUFACTURE : SWITZERLAND ***

Compliant to the European Union Directive 2011/65/EU also known as RoHS

Alain Thurre

Inspection Department

Valid without signature 03

Système de Management certifié

ISO 9001 / ISO 14001 / OHSAS 18001

Définition of abbreviations on demand



CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES
1015 SAINT JEROME STREET
MISHAWAKA IN

46544

COPPER & BRASS SALES
P.O. BOX 5116
SOUTHFIELD MI

48086

COPPER&BR Z62807 4075 INCLUSION SERIAL#: 20131126Z62807 PAGE 1 OF 3

CUSTOMER PURCHASE ORDER NO. & ITEM 5400205531				Constellium ORDER NO. 110-513619		CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA <i>Rodney J. Felty</i> Rodney J. Felty - Laboratory Manager	
ALLOY 7075	CLAD. 00	TEMPER T651	GAUGE 3.00000	WIDTH 60.500	LENGTH 144.500		
ITEM ORDERED TOOLING PLT-DIST/GE							
CUSTOMER SPECIFICATION AMS-QQ-A-250/12							
PART NUMBER ALFLR01006			B/L NUMBER Z62800		DATE SHIPPED 11/29/13		
WEIGHT SHIPPED 5,420		NO. OF PIECES 2		GOVT. CONTRACT NO.			

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS										
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN	MAX									
400911	LT	2	***** 79.6	T651 80.2	69.3	70.0	***** 13.5	13.5											
All material contained in lot 400911 was cast and manufactured in the USA.																			

ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS																			

ASTM B209-10 AND AMS 4045K																			
AL 13/12/18																			
CHEM COM POS	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTAL MAX.
		SEE ACTUAL CHEMICAL COMPOSITION																	
ALUMINUM REMAINDER																			



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1015 SAINT JEROME STREET
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			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN	MAX									
400911 C			ACTUAL CHEMICAL COMPOSITION																
			SI= 0.05	FE= 0.09	CU= 1.39	MN= 0.01	MG= 2.60												
			CR= 0.20	ZN= 5.49	TI= 0.04	ZR= 0.01													
			OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER																
C 13/12/18																			
CHEM COM	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTAL MAX.
		SEE ACTUAL CHEMICAL COMPOSITION																	
		ALUMINUM REMAINDER																	



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ALLOY 7075	CLAD. 00	TEMPER T651	GAUGE 3.00000	WIDTH 60.500	LENGTH 144.500		
TOOLING PLT-DIST/GE							
CUSTOMER SPECIFICATION AMS-QQ-A-250/12							
PART NUMBER ALFLR01006		B/L NUMBER Z62800		DATE SHIPPED 11/29/13			
WEIGHT SHIPPED 5,420		NO. OF PIECES 2		GOVT. CONTRACT NO.			

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS										
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN	MAX									
THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.																			
CHEMISTRY BY OES: ARKSPARK																			
CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT.																			
WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399.																			
WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8; B557.																			
Mark Paperwork: ALFLR01006																			
DUNS Number: 090570149; CAGE Code: 1YWL9																			
Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product.																			
"END OF CERTIFICATION"																			
CHEM COMP	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTAL MAX.
		SEE ACTUAL CHEMICAL COMPOSITION																	
		ALUMINUM REMAINDER																	



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO22228**

Purchase Order Date 11/28/2013

PO Print Date 11/28/2013

Page Number 1 of 3

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

11/28/2013

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Buyer
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M6061T6B4.500X4.500	6061-T6 Aluminum Bar 4.500" X 4.500"	12/11/2013 No 12/11/2013		6.00 f	\$60.83	\$365.00

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221

Line Total: \$365.00

2	M6061T6R1.625	6061T6 ROUND BAR 1.625	12/11/2013 Yes 12/11/2013		24.00 f	\$4.32	\$103.60
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MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221

Line Total: \$103.60

PO Instructions: NO: PEC ST-626641
NO: PEC ST-626859

Note:

11/28/2013



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO22228**

Purchase Order Date 11/28/2013

PO Print Date 11/28/2013

Page Number 2 of 3

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

3	M6061T6R2.000	6061T6 ROUND BAR 2.00	12/11/2013	12.00	\$6.78	\$81.40
			Yes	f		
			12/11/2013			
	SAME AS ABOVE					

Line Total: \$81.40

4	M7075T6B3.500X02.000	7075-T6 BAR 3.500' X 2.000"	12/11/2013	✓ 24.00	\$35.50	\$852.00
			Yes	f		
			12/11/2013			
	MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR OR AMS-QQA-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-200/11 OR CUT FROM PLATE QQ-A-250/12					

Line Total: \$852.00

5	M7075T6B4.000X03.000	7075-T6 BAR 4.000' X 3.000"	12/11/2013	✓ 12.00	\$62.13	\$745.61
			Yes	f		
			12/11/2013			
	MATERIAL SAME AS ABOVE PLEASE CUT IN SECTION OF 6 FT					

Line Total: \$745.61

PO Instructions: NO: PEC ST-626641
NO: PEC ST-626859

Note:

11/28/2013



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO22228**

Purchase Order Date 11/28/2013

PO Print Date 11/28/2013

Page Number 3 of 3

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone

Ship Via: Yours ppd
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

6	M7075T6B2.000X00.750	7075-T6 BAR 2.000' X 0.750"	12/11/2013	12.00	\$14.40	\$172.80
			Yes	f		
			12/11/2013			

MATERIAL SAME AS ABOVE

Line Total: \$172.80

7	M7075T6B1.750X02.250	7075-T6 BAR 1.750" X 2.250"	12/11/2013	12.00	\$25.92	\$311.00
			Yes	f		
			12/11/2013			

MATERIAL AS ABOVE

Line Total: \$311.00

8	M7075T6B6.000X0.250	7075-T6 BAR 6.000" X 0.250"	12/11/2013	12.00	\$14.96	\$179.50
			Yes	f		
			12/11/2013			

MATERIAL AS ABOVE

Line Total: \$179.50

PO Total: \$2,810.91

PO Instructions: NO: PEC ST-626641
NO: PEC ST-626859

Note: Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.
No substitution or deviation without consent.
Certificate of Conformity or Material Certification required - YES NO
PST# 6122-5207

Change Nbr: 1

Change Date: 11/28/2013